

Applicants: KLAUS SEELBACH
For: CONDUIT ARRANGEMENT IN A CONTROL VALVE MODULE FOR A FUEL INJECTOR ASSEMBLY
Page 3 of 6

AMENDMENTS TO THE CLAIMS

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A control valve module $\langle 14 \rangle$ for a fuel injector assembly $\langle 10 \rangle$ for an internal combustion engine, the fuel injector assembly having a pump body $\langle 22 \rangle$ with a high-pressure passage $\langle 38 \rangle$ and a spring cage assembly $\langle 16 \rangle$ with a high-pressure passage $\langle 52 \rangle$, wherein the control valve module $\langle 14 \rangle$ is adapted to be interposed between the pump body $\langle 22 \rangle$, with an upper edge $\langle 34 \rangle$ facing the pump body and a lower edge $\langle 35 \rangle$ facing the spring cage assembly $\langle 16 \rangle$, and wherein the control valve module $\langle 14 \rangle$ further has a facing recess $\langle 104 \rangle$ to accommodate at least a portion of a stator assembly $\langle 36 \rangle$ with a cylindrical chamber $\langle 42 \rangle$ extending into the valve module from the facing recess $\langle 104 \rangle$, with an annulus $\langle 106 \rangle$ surrounding the cylindrical chamber, and with a high-pressure passage $\langle 108 \rangle$, characterized by:

the control valve high-pressure passage $\langle 108 \rangle$ having a first portion $\langle 110 \rangle$ extending linearly between the annulus $\langle 106 \rangle$ and the upper edge $\langle 34 \rangle$ where it is positioned to communicate with the pump body high-pressure passage $\langle 38 \rangle$, and a second portion $\langle 112 \rangle$ extending linearly between the annulus $\langle 106 \rangle$ and the lower edge $\langle 35 \rangle$ where it is positioned to communicate with the spring cage assembly high-pressure passage $\langle 50 \rangle$.

2. (Currently Amended) A control valve module $\langle 14 \rangle$ according to claim 1 wherein the first portion $\langle 110 \rangle$ and second portion $\langle 112 \rangle$ extend relative to each other at an angle other than 180 degrees.

Applicants: KLAUS SEELBACH
For: CONDUIT ARRANGEMENT IN A CONTROL VALVE MODULE FOR A FUEL INJECTOR ASSEMBLY

Page 4 of 6

3. (Currently Amended) A control valve module (44) according to claim 1 wherein the pump body (22) is provided with a recess (402) to accommodate at least portion of the stator assembly (36) so that the recess (402) and the facing recess (404) fully enclose and retain the stator assembly (36) when the control valve module (44) is assembled to the pump body (22).

4. (Currently Amended) A fuel injector assembly (40) for an internal combustion engine, the fuel injector assembly having a pump body (22) with a high-pressure passage (30), a spring cage assembly (46) with a high-pressure passage (50), and a control valve module (44) between the pump body (22) and the spring cage assembly (46), with an upper edge (34) facing the pump body and a lower edge (35) facing the spring cage assembly, and wherein the control valve module (44) has a facing recess (404) to accommodate at least a portion of a stator assembly (36) with a cylindrical chamber (42) extending into the valve module (44) from the facing recess (404), with an annulus (406) surrounding the cylindrical chamber (42), and with a high-pressure passage (408), characterized by:

the control valve high-pressure passage (408) having a first portion (410) extending linearly between the annulus (406) and the upper edge (34) where it is positioned to communicate with the pump body high-pressure passage (30), and a second portion (412) extending linearly between the annulus (406) and the lower edge (35) where it is positioned to communicate with the spring cage assembly high-pressure passage (50).

5. (Currently Amended) A fuel injector assembly (40) according to claim 4 wherein the pump body (22) has a recess (402) to accommodate at least portion of the stator assembly (36) so that the recess (402) and the facing recess (404) fully enclose and retain the stator assembly (36).

Applicants: KLAUS SEELBACH
For: CONDUIT ARRANGEMENT IN A CONTROL VALVE MODULE FOR A FUEL INJECTOR ASSEMBLY

Page 5 of 6

6. (Currently Amended) A fuel injector assembly ¶10 according to claim 4 wherein the first portion ¶110 and second portion ¶112 extend relative to each other at an angle other than 180 degrees.

7. (Currently Amended) A method of making a control valve module ¶14 for a fuel injector assembly ¶10 for an internal combustion engine comprising the steps of:

- providing a metal block with a machined upper edge ¶34 and machined lower edge ¶35;
- machining a facing recess ¶104 into the upper edge ¶34 with a cylindrical chamber ¶42 extending therefrom;
- drilling a first portion of a conduit from the upper edge ¶34 to an intersection point at the cylindrical chamber ¶42;
- drilling a second portion of a conduit from the lower edge ¶35 to the intersection point; and electro chemically machining an annulus ¶106 surrounding the cylindrical chamber ¶42 at the intersection point.